Amended Set of Claims

1. (Currently Amended) A method comprising:

constructing, with a source device, a plurality of data structures each corresponding to a multiview video coding (MVC) operation point of an MPEG-2 (Motion Picture Experts Group) System standard bitstream, wherein each data structure signals a rendering capability value that describes a rendering capability to be satisfied by a receiving device to use the corresponding MVC operation point, a decoding capability value that describes a decoding capability to be satisfied by the receiving device to use the corresponding MVC operation point, and a bitrate value that describes a bitrate of the corresponding MVC operation point, and wherein each data structure is included as part of the bitstream; and

outputting the bitstream comprising the plurality of data structures.

2. (Currently Amended) The method of claim 1, wherein constructing each data structure comprises constructing the data structure to cause one or more two-dimensional display devices and three-dimensional display devices to adapt the bitstream to the one or more two-dimensional display devices and three-dimensional display devices and to accommodate transport media of various bandwidths to the one or more two-dimensional display devices and three-dimensional display devices.

3. (Original) The method of claim 1, wherein the rendering capability value describes at least a number of views targeted for rendering for the corresponding MVC operation point, a frame rate for video data of the corresponding MVC operation point, and a temporal identifier value for the corresponding MVC operation point.

4. (Original) The method of claim 1, wherein the decoding capability value describes at least a number of views to be decoded for the corresponding MVC operation point, a level value corresponding to the MVC operation point, and a profile value corresponding to the MVC operation point.

5. (Original) The method of claim 1, wherein the bitrate value describes one of an average bitrate for the corresponding MVC operation point and the maximum bitrate for the corresponding MVC operation point.

6. (Currently Amended) The method of claim 1, wherein constructing each data structure comprises an operation point descriptor in a program map table data structure, and wherein the bitstream comprises an MPEG-2 transport stream.

7. (Currently Amended) The method of claim 1, wherein constructing each data structure comprises an operation point descriptor in a program stream map data structure, and wherein the bitstream comprises an MPEG-2 program stream.

8. (Currently Amended) The method of claim 1, wherein each data structure comprises an operation point descriptor, and wherein constructing each data structure comprises:

including a frame rate value in the operation point descriptor that describes a maximum frame rate for video data included in a number of views for the MVC operation point;

including view-identifier values in the operation point descriptor for a number of views targeted for rendering of the MVC operation point, wherein each of the view-identifier values corresponds to one of the views targeted for rendering;

including view-identifier values in the operation point descriptor for a number of views to be decoded for the MVC operation point, wherein each of the view-identifier values corresponds to one of the views to be decoded; and

including a temporal-identifier value in the operation point descriptor that corresponds to a frame rate for a video stream assembled from video data of the views for the MVC operation point.

9. (Currently Amended) The method of claim 1, wherein each data structure comprises an operation point descriptor, and wherein outputting the bitstream comprises outputting the bitstream comprising each of the constructed operation point descriptors.

10. (Currently Amended) An apparatus comprising:

a multiplexer that constructs a plurality of data structures corresponding to a multiview video coding (MVC) operation point of an MPEG-2 (Motion Picture Experts Group) System standard bitstream, wherein each data structure signals a rendering capability value that describes a rendering capability to be satisfied by a receiving device to use the corresponding MVC operation point, a decoding capability value that describes a decoding capability to be satisfied by the receiving device to use the corresponding MVC operation point, and a bitrate value that describes a bitrate of the corresponding MVC operation point, and that includes each data structure as part of the bitstream; and

an output interface that outputs the bitstream comprising the plurality of data structures.

11. (Original) The apparatus of claim 10, wherein the rendering capability value describes at least a number of views targeted for rendering for the corresponding MVC operation point, a frame rate for video data of the corresponding MVC operation point, and a temporal identifier value for the corresponding MVC operation point.

12. (Original) The apparatus of claim 10, wherein the decoding capability value describes at least a number of views to be decoded for the corresponding MVC operation point, a level value corresponding to the MVC operation point, and a profile value corresponding to the MVC operation point.

13. (Original) The apparatus of claim 10, wherein the bitrate value describes one of an average bitrate for the corresponding MVC operation point and the maximum bitrate for the corresponding MVC operation point.

14. (Currently Amended) The apparatus of claim 10, wherein the multiplexer constructs each data structure as an operation point descriptor in a program map table data structure, and wherein the bitstream comprises an MPEG-2 transport stream.

15. (Currently Amended) The apparatus of claim 10, wherein the multiplexer constructs each data structure as an operation point descriptor in a program stream map data structure, and wherein the bitstream comprises an MPEG-2 program stream.

16. (Currently Amended) The apparatus of claim 10, wherein the multiplexer constructs each data structure as an operation point descriptor, wherein each MVC operation point corresponds to a subset of a number of views of the bitstream, and wherein to construct each data structure, the multiplexer includes a frame rate value in the operation point descriptor that describes a maximum frame rate for video data included in the views for the corresponding MVC operation point, includes view-identifier values in the operation point descriptor for views targeted for rendering of the corresponding MVC operation point, wherein each of the view-identifier values corresponds to one of the views targeted for rendering, includes view-identifier values in the operation point descriptor for views to be decoded for the corresponding MVC operation point, wherein each of the view-identifier values corresponds to one of the views to be decoded, and includes a temporal-identifier value in the operation point descriptor that corresponds to a frame rate for a video stream assembled from the video data of the views for the corresponding MVC operation point.

17. (Currently Amended) The apparatus of claim 10, wherein each data structure comprises an operation point descriptor, and wherein outputting the bitstream comprises outputting the bitstream comprising each of the constructed operation point descriptors.

18. (Original) The apparatus of claim 10, wherein the apparatus comprises at least one of:

an integrated circuit;

a microprocessor, and

a wireless communication device that includes the multiplexer.

19. (Currently Amended) An apparatus comprising:

means for constructing a plurality of data structures each corresponding to a multiview video coding (MVC) operation point of an MPEG-2 (Motion Picture Experts

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Received at the EPO on Dec 23, 2010 23:09:05. Page 32 of 43

Group) System standard bitstream, wherein each data structure signals a rendering capability value that describes a rendering capability to be satisfied by a receiving device to use the corresponding MVC operation point, a decoding capability value that describes a decoding capability to be satisfied by the receiving device to use the corresponding MVC operation point, and a bitrate value that describes a bitrate of the corresponding MVC operation point, and wherein each data structure is included as part of the bitstream; and

means for outputting the bitstream comprising the plurality of data structures.

20. (Original) The apparatus of claim 19, wherein the rendering capability value describes at least a number of views targeted for rendering for the corresponding MVC operation point, a frame rate for video data of the corresponding MVC operation point, and a temporal identifier value for the corresponding MVC operation point.

21. (Original) The apparatus of claim 19, wherein the decoding capability value describes at least a number of views to be decoded for the corresponding MVC operation point, a level value corresponding to the MVC operation point, and a profile value corresponding to the MVC operation point.

22. (Original) The apparatus of claim 19, wherein the bitrate value describes one of an average bitrate for the corresponding MVC operation point and the maximum bitrate for the corresponding MVC operation point.

23. (Currently Amended) The apparatus of claim 19, wherein each data structure comprises an operation point descriptor, and wherein the means for constructing each data structure comprises:

means for including a frame rate value in the operation point descriptor that describes a maximum frame rate for video data included in a number of views for the MVC operation point;

means for including view-identifier values in the operation point descriptor for a number of views targeted for rendering of the MVC operation point, wherein each of the view-identifier values corresponds to one of the views targeted for rendering;

means for including view-identifier values in the operation point descriptor for a number of views to be decoded for the MVC operation point, wherein each of the view-identifier values corresponds to one of the views to be decoded; and

means for including a temporal-identifier value in the operation point descriptor that corresponds to a frame rate for a video stream assembled from video data of the views for the MVC operation point.

24. (Currently Amended) A computer-readable storage medium comprising instructions that, when executed, cause a processor of a source device to:

construct a plurality of data structures each corresponding to a multiview video coding (MVC) operation point of an MPEG-2 (Motion Picture Experts Group) System standard bitstream, wherein each data structure signals a rendering capability value that describes a rendering capability to be satisfied by a receiving device to use the corresponding MVC operation point, a decoding capability value that describes a decoding capability to be satisfied by the receiving device to use the corresponding MVC operation point, and a bitrate value that describes a bitrate of the corresponding MVC operation point, and wherein the each data structure is included as part of the bitstream; and

cause an output interface to output the bitstream comprising the data structures.

25. (Original) The computer-readable storage medium of claim 24, wherein the rendering capability value describes at least a number of views targeted for rendering for the corresponding MVC operation point, a frame rate for video data of the corresponding MVC operation point, and a temporal identifier value for the corresponding MVC operation point.

26. (Original) The computer-readable storage medium of claim 24, wherein the decoding capability value describes at least a number of views to be decoded for the corresponding MVC operation point, a level value corresponding to the MVC operation point, and a profile value corresponding to the MVC operation point.

27. (Original) The computer-readable storage medium of claim 24, wherein the bitrate value describes one of an average bitrate for the corresponding MVC operation point and the maximum bitrate for the corresponding MVC operation point.

28. (Currently Amended) The computer-readable storage medium of claim 24, wherein the data structure comprises an operation point descriptor, and wherein the instructions that cause the processor to construct each data structure comprise instructions that cause the processor to:

include a frame rate value in the operation point descriptor that describes a maximum frame rate for video data included in a number of views for the MVC operation point;

include view-identifier values in the operation point descriptor for a number of views targeted for rendering of the MVC operation point, wherein each of the view-identifier values corresponds to one of the views targeted for rendering;

include view-identifier values in the operation point descriptor for a number of views to be decoded for the MVC operation point, wherein each of the view-identifier values corresponds to one of the views to be decoded; and

include a temporal-identifier value in the operation point descriptor that corresponds to a frame rate for a video stream assembled from the video data of the views for the MVC operation point.

29. (Currently Amended) A method comprising:

receiving, with a destination device, a data structure corresponding to a multiview video coding (MVC) operation point of an MPEG-2 (Motion Picture Experts Group) System standard bitstream, wherein the data structure signals a rendering capability value that describes a rendering capability to be satisfied by a receiving device to use the MVC operation point, a decoding capability value that describes a decoding capability to be satisfied by the receiving device to use the MVC operation point, and a bitrate value that describes a bitrate of the MVC operation point;

determining whether a video decoder of the destination device is capable of decoding a number of views corresponding to the MVC operation point based on the decoding capability signaled by the data structure;

determining whether the destination device is capable of rendering the views corresponding to the MVC operation point based on the rendering capability signaled by the data structure; and

sending the views corresponding to the MVC operation point to the video decoder of the destination device when the video decoder of the destination device is determined to be capable of decoding and rendering the views corresponding to the MVC operation point.

30. (Currently Amended) The method of claim 29, wherein the data structure comprises an operation point descriptor, and wherein the operation point descriptor comprises a frame rate value that describes a maximum frame rate for video data included in the views for the MVC operation point, view-identifier values for a number of views targeted for rendering of the MVC operation point, wherein each of the view-identifier values corresponds to one of the views targeted for rendering, view-identifier values for a number of views to be decoded for the MVC operation point, wherein each of the view-identifier values corresponds to one of the views to be decoded, and a temporal-identifier value that corresponds to a frame rate for a video stream assembled from the video data of the views for the MVC operation point.

31. (Currently Amended) The method of claim 30, wherein determining whether the video decoder is capable of decoding the views comprises determining whether the video decoder is capable of decoding a number of views equivalent to the number of views to be decoded at the frame rate indicated by the frame rate value.

32. (Original) The method of claim 30, further comprising:

receiving operation point descriptors for each operation point included in the bitstream;

selecting an operation point based on the corresponding operation point descriptor, wherein selecting comprises determining that the video decoder is capable of decoding and rendering views corresponding to the selected operation point; and

sending the views corresponding to the selected operation point to the video decoder.

33. (Currently Amended) The method of claim 29, wherein the destination device is configured with a supported number of views that describes a supported number of views that can be rendered by the destination device and a frame rate value that describes a frame rate of video data that can be displayed by the destination device, wherein determining whether the destination device is capable of rendering the views corresponding to the MVC operation point comprises:

comparing a number of views corresponding to the MVC operation point to the supported number of views; and

comparing a frame rate of the views corresponding to the MVC operation point to the frame rate value,

wherein sending the views corresponding to the MVC operation point to the video decoder comprises sending the views corresponding to the MVC operation point to the video decoder when the number of views corresponding to the MVC operation point is less than or equal to the supported number of views and when the frame rate of the views corresponding to the MVC operation point is less than or equal to the frame rate value.

34. (Currently Amended) The method of claim 33, wherein the supported number of views is inversely proportional to the frame rate value.

35. (Currently Amended) An apparatus comprising:

an input interface configured to receive a data structure corresponding to a multiview video coding (MVC) operation point of an MPEG-2 (Motion Picture Experts Group) System standard bitstream, wherein the data structure signals a rendering capability value that describes a rendering capability to be satisfied by a receiving device to use the MVC operation point, a decoding capability value that describes a decoding capability to be

satisfied by the receiving device to use the MVC operation point, and a bitrate value that describes a bitrate of the MVC operation point;

a video decoder configured to decode video data; and

a demultiplexer configured to determine whether the video decoder is capable of decoding a number of views corresponding to the MVC operation point based on the decoding capability signaled by the data structure, to determine whether the apparatus is capable of rendering the views corresponding to the MVC operation point based on the rendering capability signaled by the data structure, and to send the views corresponding to the MVC operation point to the video decoder when the video decoder is determined to be capable of decoding and rendering the views corresponding to the MVC operation point.

36. (Currently Amended) The apparatus of claim 35, wherein the data structure comprises an operation point descriptor, and wherein the operation point descriptor comprises a frame rate value that describes a maximum frame rate for video data included in the views for the MVC operation point, view-identifier values for a number of views targeted for rendering of the MVC operation point, wherein each of the view-identifier values corresponds to one of the views targeted for rendering, view-identifier values for a number of views to be decoded for the MVC operation point, wherein each of the view-identifier values corresponds to one of the views to be decoded, and a temporal-identifier value that corresponds to a frame rate for a video stream assembled from the video data of the views for the MVC operation point.

37. (Currently Amended) The apparatus of claim 36, wherein to determine whether the video decoder is capable of decoding the views, the demultiplexer is configured to determine whether the video decoder is capable of decoding a number of views equivalent to the number of views to be decoded at the frame rate indicated by the frame rate value.

38. (Original) The apparatus of claim 36, wherein the demultiplexer is configured to receive operation point descriptors for each operation point included in the bitstream, select an operation point based on the corresponding operation point descriptor, wherein to select the MVC operation point, the demultiplexer is configured to determine that the video

decoder is capable of decoding and rendering views corresponding to the selected operation point, and to send the views corresponding to the selected operation point to the video decoder.

39. (Currently Amended) The apparatus of claim 35, further comprising a computer-readable storage medium configured to store a supported number of views that describes a supported number of views that can be rendered by the destination device, and a frame rate value that describes a frame rate of video data that can be displayed by the destination device,

wherein to determine whether the apparatus is capable of rendering the views corresponding to the MVC operation point, the demultiplexer is configured to compare a number of views corresponding to the MVC operation point to the supported number of views, and to compare a frame rate of the views corresponding to the MVC operation point to the frame rate value, and

wherein the demultiplexer is configured to send the views corresponding to the MVC operation point to the video decoder when the number of views corresponding to the MVC operation point is less than or equal to the supported number of views and when the frame rate of the views corresponding to the MVC operation point is less than or equal to the frame rate value.

40. (Currently Amended) The apparatus of claim 39, wherein the supported number of views is inversely proportional to the frame rate value.

41. (Original) The apparatus of claim 35, wherein the apparatus comprises at least one of:

an integrated circuit;

a microprocessor, and

a wireless communication device that includes the demultiplexer.

42. (Currently Amended) An apparatus comprising:

means for receiving a data structure corresponding to a multiview video coding (MVC) operation point of an MPEG-2 (Motion Picture Experts Group) System standard bitstream, wherein the data structure signals a rendering capability value that describes a rendering capability to be satisfied by a receiving device to use the MVC operation point, a decoding capability value that describes a decoding capability to be satisfied by the receiving device to use the MVC operation point, and a bitrate value that describes a bitrate of the MVC operation point;

means for determining whether a video decoder of the apparatus is capable of decoding a number of views corresponding to the MVC operation point based on the decoding capability signaled by the data structure;

means for determining whether the apparatus is capable of rendering the views corresponding to the MVC operation point based on the rendering capability signaled by the data structure; and

means for sending the views corresponding to the MVC operation point to the video decoder of the apparatus when the video decoder of the apparatus is determined to be capable of decoding and rendering the views corresponding to the MVC operation point.

43. (Currently Amended) The apparatus of claim 42, wherein the data structure comprises an operation point descriptor, and wherein the operation point descriptor comprises a frame rate value that describes a maximum frame rate for video data included in the views for the MVC operation point, view-identifier values for a number of views targeted for rendering of the MVC operation point, wherein each of the view-identifier values corresponds to one of the views targeted for rendering, view-identifier values for a number of views to be decoded for the MVC operation point, wherein each of the view-identifier values corresponds to one of the views to be decoded, and a temporal-identifier value that corresponds to a frame rate for a video stream assembled from the video data of the views for the MVC operation point.

44. (Currently Amended) The apparatus of claim 43, wherein the means for determining whether the video decoder is capable of decoding the views comprises means for

determining whether the video decoder is capable of decoding a number of views equivalent to the number of views at the frame rate indicated by the frame rate value.

45. (Original) The apparatus of claim 43, further comprising:

means for receiving operation point descriptors for each operation point included in the bitstream;

means for selecting an operation point based on the corresponding operation point descriptor, wherein selecting comprises determining that the video decoder is capable of decoding and rendering views corresponding to the selected operation point; and

means for sending the views corresponding to the selected operation point to the video decoder.

46. (Currently Amended) The apparatus of claim 42, further comprising means for storing a supported number of views that describes a supported number of views that can be rendered by the destination device and a frame rate value that describes a frame rate of video data that can be displayed by the destination device, wherein the means for determining whether the destination device is capable of rendering the views corresponding to the MVC operation point comprises:

means for comparing a number of views corresponding to the MVC operation point to the supported number of views; and

means for comparing a frame rate of the views corresponding to the MVC operation point to the frame rate value,

wherein the means for sending the views corresponding to the MVC operation point to the video decoder comprises means for sending the views corresponding to the MVC operation point to the video decoder when the number of views corresponding to the MVC operation point is less than or equal to the supported number of views and when the frame rate of the views corresponding to the MVC operation point is less than or equal to the frame rate value.

47. (Currently Amended) A computer-readable storage medium comprising instructions that when executed, cause a processor of a destination device to:

receive a data structure corresponding to a multiview video coding (MVC) operation point of an MPEG-2 (Motion Picture Experts Group) System standard bitstream, wherein the data structure signals a rendering capability value that describes a rendering capability to be satisfied by a receiving device to use the MVC operation point, a decoding capability value that describes a decoding capability to be satisfied by the receiving device to use the MVC operation point, and a bitrate value that describes a bitrate of the MVC operation point;

determine whether a video decoder of the destination device is capable of decoding a number of views corresponding to the MVC operation point based on the decoding capability signaled by the data structure;

determine whether the destination device is capable of rendering the views corresponding to the MVC operation point based on the rendering capability signaled by the data structure; and

send the views corresponding to the MVC operation point to the video decoder of the destination device when the video decoder of the destination device is determined to be capable of decoding and rendering the views corresponding to the MVC operation point.

48. (Currently Amended) The computer-readable storage medium of claim 47, wherein the data structure comprises an operation point descriptor, and wherein the operation point descriptor comprises a frame rate value that describes a maximum frame rate for video data included in the views for the MVC operation point, view-identifier values for a number of views targeted for rendering of the MVC operation point, wherein each of the view-identifier values corresponds to one of the views targeted for rendering, view-identifier values for a number of views to be decoded for the MVC operation point, wherein each of the view-identifier values corresponds to one of the views to be decoded, and a temporal-identifier value that corresponds to a frame rate for a video stream assembled from the video data of the views for the MVC operation point.

49. (Currently Amended) The computer-readable storage medium of claim 48, wherein the instructions that cause the processor to determine whether the video decoder is capable of decoding the views comprise instructions that cause the processor to determine whether

the video decoder is capable of decoding a number of views equivalent to the number of views at the frame rate indicated by the frame rate value.

50. (Original) The computer-readable storage medium of claim 48, further comprising instructions that cause the processor to:

receive operation point descriptors for each operation point included in the bitstream;

select an operation point based on the corresponding operation point descriptor, wherein selecting comprises determining that the video decoder is capable of decoding and rendering views corresponding to the selected operation point; and

send the views corresponding to the selected operation point to the video decoder.

51. (Currently Amended) The computer-readable storage medium of claim 47, wherein the destination device is configured with a supported number of views that describes a supported number of views that can be rendered by the destination device and a frame rate value that describes a frame rate of video data that can be displayed by the destination device, wherein the instructions that cause the processor to determine whether the destination device is capable of rendering the views corresponding to the MVC operation point comprise instructions that cause the processor to:

compare a number of views corresponding to the MVC operation point to the supported number of views; and

compare a frame rate of the views corresponding to the MVC operation point to the frame rate value,

wherein the instructions that cause the processor to send the views corresponding to the MVC operation point to the video decoder comprise instructions that cause the processor to send the views corresponding to the MVC operation point to the video decoder when the number of views corresponding to the MVC operation point is less than or equal to the supported number of views and when the frame rate of the views corresponding to the MVC operation point is less than or equal to the frame rate value.

CLAIMS

1. A method including:

constructing, with a source device, a plurality of multiview video coding (MVC) descriptors each corresponding to respective MVC operation points of an MPEG-2 (Motion Picture Experts Group) System standard bitstream, wherein each MVC descriptor signals a rendering capability value that describes a rendering capability to be satisfied by a receiving device to use the corresponding MVC operation point and a decoding capability value that describes a decoding capability to be satisfied by the receiving device to use the corresponding MVC operation point, and wherein each MVC descriptor is included as part of the bitstream; and

outputting the bitstream including the plurality of MVC descriptors that correspond to the respective MVC operation points.

2. The method of claim 1, wherein constructing the plurality of MVC descriptors includes constructing each MVC descriptor to cause one or more two-dimensional display devices and three-dimensional display devices to adapt the bitstream to the one or more two-dimensional display devices and three-dimensional display devices and to accommodate transport media of various bandwidths to the one or more two-dimensional display devices and three-dimensional display devices.

3. The method of claim 1 or 2, wherein the rendering capability value describes at least a number of views targeted for rendering for the corresponding MVC operation point, a frame rate for video data of the corresponding MVC operation point, and a temporal identifier value for the corresponding MVC operation point.

4. The method of claim 1, 2 or 3, wherein the decoding capability value describes at least a number of views to be decoded for the corresponding MVC operation point, a level value corresponding to the MVC operation point, and a profile value corresponding to the MVC operation point.

5. The method of any one of claims 1 to 4, wherein constructing the plurality of MVC descriptors includes constructing the plurality of MVC descriptors to signal a bitrate value that describes a bitrate of the corresponding MVC operation point, and wherein the bitrate value describes one of an average bitrate for the corresponding MVC operation point and the maximum bitrate for the corresponding MVC operation point.

6. The method of any one of claims 1 to 5, wherein constructing the plurality of MVC descriptors includes constructing an operation point descriptor in a program map table data structure, and wherein the bitstream includes an MPEG-2 transport stream.

7. The method of any one of claims 1 to 5, wherein constructing the plurality of MVC descriptors includes constructing an operation point descriptor in a program stream map data structure, and wherein the bitstream includes an MPEG-2 program stream.

8. The method of claim 1, wherein each MVC descriptor includes an operation point descriptor, and wherein constructing the plurality of MVC descriptors includes:

including a frame rate value in the operation point descriptor that describes a maximum frame rate for video data included in a number of views for the MVC operation point;

including view-identifier values in the operation point descriptor for a number of views targeted for rendering of the MVC operation point, wherein each of the view-identifier values corresponds to one of the views targeted for rendering;

including view-identifier values in the operation point descriptor for a number of views to be decoded for the MVC operation point, wherein each of the view-identifier values corresponds to one of the views to be decoded; and

including a temporal-identifier value in the operation point descriptor that corresponds to a frame rate for a video stream assembled from video data of the views for the MVC operation point.

9. An apparatus including:

a multiplexer that constructs a plurality of multiview video coding (MVC) descriptors each corresponding to respective MVC operation points of an MPEG-2 (Motion Picture Experts Group) System standard bitstream, wherein each MVC descriptor signals a rendering capability value that describes a rendering capability to be satisfied by a receiving device to use the corresponding MVC operation point and a decoding capability value that describes a decoding capability to be satisfied by the receiving device to use the corresponding MVC operation point, and wherein each MVC descriptor is included as part of the bitstream; and

an output interface that outputs the bitstream including the plurality of MVC descriptors that correspond to the respective MVC operation points.

10. The apparatus of claim 9, wherein the rendering capability value describes at least a number of views targeted for rendering for the corresponding MVC operation point, a frame rate for video data of the corresponding MVC operation point, and a temporal identifier value for the corresponding MVC operation point.

11. The apparatus of claim 9 or 10, wherein the decoding capability value describes at least a number of views to be decoded for the corresponding MVC operation point, a level value corresponding to the MVC operation point, and a profile value corresponding to the MVC operation point.

12. The apparatus of claim 9, 10 or 11, wherein the bitrate value describes one of an average bitrate for the corresponding MVC operation point and the maximum bitrate for the corresponding MVC operation point.

13. The apparatus of any one of claims 9 to 12, wherein the multiplexer constructs each MVC descriptor as an operation point descriptor in a program map table data structure, and wherein the bitstream includes an MPEG-2 transport stream.

14. The apparatus of any one of claims 9 to 12, wherein the multiplexer constructs each MVC descriptor as an operation point descriptor in a program stream map data structure, and wherein the bitstream includes an MPEG-2 program stream.

15. The apparatus of claim 9, wherein the multiplexer constructs each MVC descriptor as an operation point descriptor, wherein each MVC operation point corresponds to a subset of a number of views of the bitstream, and wherein to construct each MVC descriptor, the multiplexer includes a frame rate value in the operation point descriptor that describes a maximum frame rate for video data included in the views for the corresponding MVC operation point, includes view-identifier values in the operation point descriptor for views targeted for rendering of the corresponding MVC operation point, wherein each of the view-identifier values corresponds to one of the views targeted for rendering, includes view-identifier values in the operation point descriptor for views to be decoded for the corresponding MVC operation point, wherein each of the view-identifier values corresponds to one of the views to be decoded, and includes a temporal-identifier value in the operation point descriptor that corresponds to a frame rate for a video stream assembled from the video data of the views for the corresponding MVC operation point.

16. The apparatus of any one of claims 9 to 15, wherein the apparatus includes at least one of:

an integrated circuit;

a microprocessor, and

a wireless communication device that includes the multiplexer.

17. An apparatus including:

means for constructing a plurality of multiview video coding (MVC) descriptors each corresponding to respective MVC operation points of an MPEG-2 (Motion Picture Experts Group) System standard bitstream, wherein each MVC descriptor signals a rendering capability value that describes a rendering capability to be satisfied by a receiving device to use the corresponding MVC operation point and a decoding capability value that describes a decoding capability to be satisfied by the receiving device to use the

corresponding MVC operation point, and wherein each MVC descriptor is included as part of the bitstream; and

means for outputting the bitstream including the plurality of MVC descriptors that correspond to the respective MVC operation points.

18. A computer-readable storage medium including instructions that, when executed, cause a processor of a source device to perform the method of any one of claims 1 to 8.

19. A method including:

receiving, with a destination device, a plurality of multiview video coding (MVC) descriptors each corresponding to respective MVC operation points of an MPEG-2 (Motion Picture Experts Group) System standard bitstream, wherein each of the MVC descriptors signals a rendering capability value that describes a rendering capability to be satisfied by a receiving device to use the MVC operation point and a decoding capability value that describes a decoding capability to be satisfied by the receiving device to use the MVC operation point;

determining for each of the MVC descriptors that correspond to the respective MVC operation points, whether a video decoder of the destination device is capable of decoding a number of views corresponding to the MVC operation point based on the decoding capability signaled by the MVC descriptor;

determining for each of the MVC descriptors that correspond to the respective MVC operation points, whether the destination device is capable of rendering the views corresponding to the MVC operation point based on the rendering capability signaled by the MVC descriptor;

selecting one of the operation points based on the corresponding MVC descriptor, wherein selecting includes determining that the video decoder is capable of decoding and rendering views corresponding to the selected operation point; and

sending the views corresponding to the selected MVC operation point to the video decoder of the destination device.

20. The method of claim 19, wherein each of the MVC descriptors includes an operation point descriptor, and wherein the operation point descriptor includes a frame rate value that describes a maximum frame rate for video data included in the views for the MVC operation point, view-identifier values for a number of views targeted for rendering of the MVC operation point, wherein each of the view-identifier values corresponds to one of the views targeted for rendering, view-identifier values for a number of views to be decoded for the MVC operation point, wherein each of the view-identifier values corresponds to one of the views to be decoded, and a temporal-identifier value that corresponds to a frame rate for a video stream assembled from the video data of the views for the MVC operation point.

21. The method of claim 20, wherein determining whether the video decoder is capable of decoding the views includes determining whether the video decoder is capable of decoding a number of views equivalent to the number of views to be decoded at the frame rate indicated by the frame rate value.

22. The method of claim 19, wherein the destination device is configured with a supported number of views that describes a supported number of views that can be rendered by the destination device and a frame rate value that describes a frame rate of video data that can be displayed by the destination device, wherein determining whether the destination device is capable of rendering the views corresponding to the MVC operation point includes:

comparing a number of views corresponding to the MVC operation point to the supported number of views; and

comparing a frame rate of the views corresponding to the MVC operation point to the frame rate value,

wherein sending the views corresponding to the MVC operation point to the video decoder includes sending the views corresponding to the MVC operation point to the video decoder when the number of views corresponding to the MVC operation point is less than or equal to the supported number of views and when the frame rate of the views corresponding to the MVC operation point is less than or equal to the frame rate value.

23. The method of claim 22, wherein the supported number of views is inversely proportional to the frame rate value.

24. An apparatus including:

an input interface configured to receive a plurality of multiview video coding (MVC) descriptors each corresponding to respective MVC operation points of an MPEG-2 (Motion Picture Experts Group) System standard bitstream, wherein each of the MVC descriptors signals a rendering capability value that describes a rendering capability to be satisfied by a receiving device to use the MVC operation point and a decoding capability value that describes a decoding capability to be satisfied by the receiving device to use the MVC operation point;

a video decoder configured to decode video data; and

a demultiplexer configured to determine for each of the MVC descriptors that correspond to the respective MVC operation points, whether the video decoder is capable of decoding a number of views corresponding to the MVC operation point based on the decoding capability signaled by the MVC descriptor, to determine for each of the MVC descriptors that correspond to the respective MVC operation points, whether the apparatus is capable of rendering the views corresponding to the MVC operation point based on the rendering capability signaled by the MVC descriptor to select one of the operation points based on the corresponding MVC descriptor, wherein selecting includes determining that the video decoder is capable of decoding and rendering views corresponding to the selected operation point, and to send the views corresponding to the selected MVC operation point to the video decoder.

25. The apparatus of claim 24, wherein each MVC descriptor includes an operation point descriptor, and wherein the operation point descriptor includes a frame rate value that describes a maximum frame rate for video data included in the views for the MVC operation point, view-identifier values for a number of views targeted for rendering of the MVC operation point, wherein each of the view-identifier values corresponds to one of the views targeted for rendering, view-identifier values for a number of views to be decoded

for the MVC operation point, wherein each of the view-identifier values corresponds to one of the views to be decoded, and a temporal-identifier value that corresponds to a frame rate for a video stream assembled from the video data of the views for the MVC operation point.

26. The apparatus of claim 25, wherein to determine whether the video decoder is capable of decoding the views, the demultiplexer is configured to determine whether the video decoder is capable of decoding a number of views equivalent to the number of views to be decoded at the frame rate indicated by the frame rate value.

27. The apparatus of claim 24, further including a computer-readable storage medium configured to store a supported number of views that describes a supported number of views that can be rendered by the destination device, and a frame rate value that describes a frame rate of video data that can be displayed by the destination device,

wherein to determine whether the apparatus is capable of rendering the views corresponding to the MVC operation point, the demultiplexer is configured to compare a number of views corresponding to the MVC operation point to the supported number of views, and to compare a frame rate of the views corresponding to the MVC operation point to the frame rate value, and

wherein the demultiplexer is configured to send the views corresponding to the MVC operation point to the video decoder when the number of views corresponding to the MVC operation point is less than or equal to the supported number of views and when the frame rate of the views corresponding to the MVC operation point is less than or equal to the frame rate value.

28. The apparatus of claim 27, wherein the supported number of views is inversely proportional to the frame rate value.

29. The apparatus of any one of claims 24 to 28, wherein the apparatus includes at least one of:

an integrated circuit;

a microprocessor, and

a wireless communication device that includes the demultiplexer.

30. An apparatus including:

means for receiving a plurality of multiview video coding (MVC) descriptors each corresponding to respective MVC operation points of an MPEG-2 (Motion Picture Experts Group) System standard bitstream, wherein each of the MVC descriptors signals a rendering capability value that describes a rendering capability to be satisfied by a receiving device to use the MVC operation point and a decoding capability value that describes a decoding capability to be satisfied by the receiving device to use the MVC operation point;

means for determining for each of the MVC descriptors that correspond to the respective MVC operation points, whether a video decoder of the apparatus is capable of decoding a number of views corresponding to the MVC operation point based on the decoding capability signaled by the MVC descriptor;

means for determining for each of the MVC descriptors that correspond to the respective MVC operation points, whether the apparatus is capable of rendering the views corresponding to the MVC operation point based on the rendering capability signaled by the MVC descriptor;

means for selecting one of the operation points based on the corresponding MVC descriptor, wherein selecting includes determining that the video decoder is capable of decoding and rendering views corresponding to the selected operation point; and

means for sending the views corresponding to the selected MVC operation point to the video decoder of the apparatus.

31. A computer-readable storage medium including instructions that when executed, cause a processor of a destination device to perform the method of any one of claims 19 to 23.